AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Previously presented) A computerized method of generating a data mining model, the method comprising:

obtaining objectives for the data mining model;

automatically selecting a set of algorithms based on the objectives;

obtaining sample data;

creating a plurality of datasets from the sample data;

optimizing the set of algorithms using the plurality of datasets; and

generating the data mining model based on the optimized set of algorithms, wherein the data mining model mines data when executed.

2. (Original) The method of claim 1, wherein the creating step includes:

shuffling the sample data;

placing the shuffled sample data into a plurality of partitions; and

including each partition in one of the plurality of datasets.

3. (Original) The method of claim 2, wherein the plurality of datasets includes a training dataset, a validation dataset, and a testing dataset.

4. (Original) The method of claim 3, wherein the creating step further includes repeating the including step until each partition is included in at least one training dataset.

5. (Currently amended) The method of claim 1, wherein the selecting step includes obtaining a rule that comprises a best practice for an objective, the best practice defining at least one of: an algorithm or a tuning parameter for an algorithm.

6. (Original) The method of claim 5, wherein the best practice is based on at least one of: research, data characteristics, and user feedback.

7. (Original) The method of claim 1, wherein the selecting step includes analyzing an attribute of the sample data, and wherein the set of algorithms is further selected based on the attribute.

8. (Original) The method of claim 1, wherein the optimizing step includes:

      applying the set of algorithms to the plurality of datasets; and

      analyzing a set of results for the applying step.

9. (Original) The method of claim 8, wherein the optimizing step further includes:

      adjusting at least one algorithm based on the set of results; and

      applying the adjusted set of algorithms to the plurality of datasets.

10. (Previously presented) The method of claim 1, wherein the generating step includes translating the optimized set of algorithms into a set of standard query language (SQL) statements, and including the set of SQL statements in the data mining model.

11. (Original) The method of claim 1, further comprising storing the data mining model as a character large object (CLOB) in a database.

12. (Currently amended) A computerized method of generating a data mining model, the method comprising:

obtaining a set of algorithms ~~and a plurality of datasets~~;

<u>automatically generating a plurality of datasets from sample data;</u>

applying the set of algorithms to the plurality of datasets;

analyzing a set of results for the applying step;

adjusting at least one algorithm based on the set of results;

applying the adjusted set of algorithms to the plurality of datasets; and

generating the data mining model based on the adjusted set of algorithms, wherein the data mining model includes a set of SQL statements.

13. (Canceled)

14. (Original) The method of claim 12, wherein the obtaining step includes:

obtaining objectives for the data mining model; and

automatically selecting the set of algorithms based on the objectives.

15. (Currently amended) A system for generating a data mining model, the system comprising:

a dataset system for ~~obtaining~~ automatically generating a plurality of datasets from sample data;

a rules system for obtaining a plurality of algorithms;

an optimization system for optimizing the set of algorithms using the plurality of datasets; and

a model system for generating the data mining model based on the optimized set of algorithms, wherein the data mining model includes a set of SQL statements.

16. (Original) The system of claim 15, further comprising a storage system for storing the data mining model in a database.

17. (Canceled)

18. (Original) The system of claim 15, wherein the rules system automatically selects the set of algorithms based on objectives for the data mining model.

19. (Currently amended) A program product stored on a recordable medium for generating a data mining model, which when executed comprises:

program code for automatically generating a plurality of datasets from sample data;

program code for <u>automatically</u> selecting a set of algorithms based on objectives for the

data mining model;

program code for optimizing the set of algorithms using the plurality of datasets; and

program code for generating the data mining model based on the optimized set of

algorithms, wherein the data mining model mines data when executed.

20. (Original) The program product of claim 19, further comprising program code for storing the

data mining model as a character large object (CLOB) in a database.

21. (Previously presented) The program product of claim 19, wherein the program code for

generating the data mining model includes program code for translating the optimized set of

algorithms into a set of standard query language (SQL) statements, and including the set of SQL

statements in the data mining model.

22. (Original) The program product of claim 19, wherein the program code for generating the

plurality of datasets includes:

program code for shuffling the sample data;

program code for placing the shuffled sample data into a plurality of partitions; and

program code for including each partition in one of the plurality of datasets.

23. (New) The method of claim 12, wherein the automatically generating includes:

resorting a plurality of entries in the sample data;

placing each of the plurality of entries into one of a plurality of partitions; and

creating the plurality of datasets based on the plurality of partitions, each dataset

including at least one of the plurality of partitions.

24. (New) The system of claim 18, wherein the rules system obtains a rule that comprises a best

practice for an objective, the best practice defining at least one of: an algorithm or a tuning

parameter for an algorithm.